



SEQUENCE LISTING

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<120> DIFFERENTIAL LABELING FOR QUANTITATIVE  
ANALYSIS OF COMPLEX PROTEIN MIXTURES

<130> NADII.022A

<140> US 10/057,789

<141> 2002-01-25

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<151> 2001-01-26

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<160> 311

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1 5 10 15  
Gln Gly Ala Lys  
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Gln Gly

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Gln Gly Gly

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Gln Gly Ala

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Gln Gly Ala

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<400> 11  
Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Glu Asn Leu Tyr Phe  
1 5 10 15  
Gln Gly Val

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<400> 12  
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1 5 10 15  
Gln Gly Arg

<210> 13  
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 Gln Gly Ala Arg  
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 Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Glu Asn Leu Tyr Phe  
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Gln Gly Val Arg  
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Gln Gly Ala

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Gln Gly Val

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Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Glu Asn Leu Tyr Pro  
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Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Glu Asn Leu Tyr Pro  
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<400> 38  
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<400> 39  
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Gln Gly Lys

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<223> Xaa = Ornithine

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Gln Gly Xaa

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<211> 607  
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 20 25 30  
 His Arg Phe Lys Asp Leu Gly Glu His Phe Lys Gly Leu Val Leu  
 35 40 45  
 Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His Val  
 50 55 60  
 Lys Leu Val Asn Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala Asp  
 65 70 75 80  
 Glu Ser His Ala Gly Cys Glu Lys Ser Leu His Thr Leu Phe Gly Asp  
 85 90 95  
 Glu Leu Cys Lys Val Ala Ser Leu Arg Glu Thr Tyr Gly Asp Met Ala  
 100 105 110  
 Asp Cys Cys Glu Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Ser  
 115 120 125  
 His Lys Asp Asp Ser Pro Asp Leu Pro Lys Leu Lys Pro Asp Pro Asn  
 130 135 140  
 Thr Leu Cys Asp Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly Lys  
 145 150 155 160  
 Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu  
 165 170 175  
 Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys Cys  
 180 185 190  
 Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Glu Thr Met  
 195 200 205  
 Arg Glu Lys Val Leu Ala Ser Ser Ala Arg Gln Arg Leu Arg Cys Ala  
 210 215 220  
 Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val Ala  
 225 230 235 240  
 Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Val Glu Val Thr Lys  
 245 250 255  
 Leu Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly Asp  
 260 265 270  
 Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys  
 275 280 285  
 Asp Asn Gln Asp Thr Ile Ser Ser Lys Leu Lys Glu Cys Cys Asp Lys  
 290 295 300  
 Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Lys Asp Ala  
 305 310 315 320  
 Ile Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp Lys  
 325 330 335  
 Asp Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser  
 340 345 350  
 Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val  
 355 360 365  
 Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Glu Cys Cys  
 370 375 380  
 Ala Lys Asp Asp Pro His Ala Cys Tyr Ser Thr Val Phe Asp Lys Leu  
 385 390 395 400  
 Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys Asp  
 405 410 415

Gln	Phe	Glu	Lys	Leu	Gly	Glu	Tyr	Gly	Phe	Gln	Asn	Ala	Leu	Ile	Val
			420					425					430		
Arg	Tyr	Thr	Arg	Lys	Val	Pro	Gln	Val	Ser	Thr	Pro	Thr	Leu	Val	Glu
			435				440					445			
Val	Ser	Arg	Ser	Leu	Gly	Lys	Val	Gly	Thr	Arg	Cys	Cys	Thr	Lys	Pro
			450			455					460				
Glu	Ser	Glu	Arg	Met	Pro	Cys	Thr	Glu	Asp	Tyr	Leu	Ser	Leu	Ile	Leu
465					470				475					480	
Asn	Arg	Leu	Cys	Val	Leu	His	Glu	Lys	Thr	Pro	Val	Ser	Glu	Lys	Val
			485						490					495	
Thr	Lys	Cys	Cys	Thr	Glu	Ser	Leu	Val	Asn	Arg	Arg	Pro	Cys	Phe	Ser
			500					505					510		
Ala	Leu	Thr	Pro	Asp	Glu	Thr	Tyr	Val	Pro	Lys	Ala	Phe	Asp	Glu	Lys
		515					520					525			
Leu	Phe	Thr	Phe	His	Ala	Asp	Ile	Cys	Thr	Leu	Pro	Asp	Thr	Glu	Lys
		530				535					540				
Gln	Ile	Lys	Lys	Gln	Thr	Ala	Leu	Val	Glu	Leu	Leu	Lys	His	Lys	Pro
545					550					555					560
Lys	Ala	Thr	Glu	Glu	Gln	Leu	Lys	Thr	Val	Met	Glu	Asn	Phe	Val	Ala
			565						570					575	
Phe	Val	Asp	Lys	Cys	Cys	Ala	Ala	Asp	Asp	Lys	Glu	Ala	Cys	Phe	Ala
			580					585					590		
Val	Glu	Gly	Pro	Lys	Leu	Val	Val	Ser	Thr	Gln	Thr	Ala	Leu	Ala	
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<400> 46  
 Ser Leu His Thr Leu Phe Gly Asp Glu Leu Xaa Lys  
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<210> 47  
 <211> 12  
 <212> PRT  
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<220>  
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 <222> 3  
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 <223> Synthesized Peptide

<400> 47  
 Tyr Ile Xaa Asp Asn Gln Asp Thr Ile Ser Ser Lys

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<210> 48  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthesized Peptide

<221> VARIANT  
<222> 9  
<223> Xaa = Peptag-modified Cysteine Residue

<400> 48  
Leu Lys Pro Asp Pro Asn Thr Leu Xaa Asp Glu Phe Lys  
1 5 10

<210> 49  
<211> 14  
<212> PRT  
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<220>  
<223> Synthesized Peptide

<221> VARIANT  
<222> 1  
<223> Xaa = Peptag-modified Cysteine Residue

<400> 49  
Xaa Phe Ser Ala Leu Thr Pro Asp Glu Thr Tyr Val Pro Lys  
1 5 10

<210> 50  
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<220>  
<223> Synthesized Peptide

<221> VARIANT  
<222> 3  
<223> Xaa = Peptag-modified Cysteine Residue

<400> 50  
Met Pro Xaa Thr Glu Asp Tyr Leu Ser Leu Ile Leu Asn Arg  
1 5 10

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<221> VARIANT

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<223> Xaa = Peptag-modified Cysteine Residue

<400> 51

Arg Pro Xaa Phe Ser Ala Leu Thr Pro Asp Glu Thr Tyr Val Pro Lys  
1 5 10 15

<210> 52

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Synthesized Peptide

<221> VARIANT

<222> 3

<223> Xaa = Peptag-modified Cysteine Residue

<400> 52

Asn Glu Xaa Phe Leu Ser His Lys Asp Asp Ser Pro Asp Leu Pro Lys  
1 5 10 15

<210> 53

<211> 16

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<223> Synthesized Peptide

<221> VARIANT

<222> 9

<223> Xaa = Peptag-modified Cysteine Residue

<400> 53

Leu Phe Thr Phe His Ala Asp Ile Xaa Thr Leu Pro Asp Thr Glu Lys  
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<210> 54

<211> 21

<212> PRT

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<221> VARIANT



<222> 8  
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<400> 54  
Gln Glu Pro Glu Arg Asn Glu Xaa Phe Leu Ser His Lys Asp Asp Ser  
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Pro Asp Leu Pro Lys  
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<221> VARIANT  
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<223> Xaa = Peptag-modified Cysteine Residue

<400> 55  
Cys Thr Lys Pro Glu Ser Glu Arg Met Pro Xaa Thr Glu Asp Tyr Leu  
1 5 10 15  
Ser Leu Ile Leu Asn Arg  
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<210> 56  
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<213> Bovine serum albumin

<220>  
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<222> 11  
<223> Xaa = Peptag-modified Cysteine Residue

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Ser Leu His Thr Leu Phe Gly Asp Glu Leu Xaa Lys  
1 5 10

<210> 57  
<211> 21  
<212> PRT  
<213> Bovine serum albumin

<220>  
<221> VARIANT  
<222> 14  
<223> Xaa = Peptag-modified Cysteine Residue

<400> 57  
Gly Leu Val Leu Ile Ala Phe Ser Gln Tyr Leu Gln Gln Xaa Pro Phe  
1 5 10 15

Asp Glu His Val Lys  
20

<210> 58  
<211> 31  
<212> PRT  
<213> Bovine serum albumin

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<223> Xaa = Peptag-modified Cysteine Residue

<400> 58  
Gly Leu Val Leu Ile Ala Phe Ser Gln Tyr Leu Gln Gln Xaa Pro Phe  
1 5 10 15  
Asp Glu His Val Lys Leu Val Asn Glu Leu Thr Glu Phe Ala Lys  
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<210> 59  
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<213> Beta-lactoglobulin

<220>  
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<223> Xaa = Peptag-modified Cysteine Residue

<400> 59  
Val Tyr Val Glu Glu Leu Lys Pro Thr Pro Glu Gly Asp Gly Leu Glu  
1 5 10 15  
Ile Leu Leu Gln Lys Trp Glu Asn Asp Glu Xaa Ala Gln Lys Lys  
20 25 30

<210> 60  
<211> 14  
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<213> Beta-lactoglobulin

<220>  
<221> VARIANT  
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<400> 60  
Leu Ser Phe Asn Pro Thr Gln Leu Glu Glu Gln Xaa His Ile  
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<220>

<223> Synthesized Peptide

<400> 61

Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Leu Glu Val Leu Phe  
1 5 10 15  
Gln Gly Pro Lys  
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<210> 62

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized Peptide

<221> VARIANT

<222> 20

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<400> 62

Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Leu Glu Val Leu Phe  
1 5 10 15  
Gln Gly Pro Xaa  
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<210> 63

<211> 14

<212> PRT

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<400> 63

Cys Ala Ser Ala Ser Leu Glu Val Leu Phe Gln Gly Pro Lys  
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<210> 64

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized Peptide

<221> VARIANT

<222> 14

<223> Xaa = Ornithine

<400> 64

Cys Ala Ser Ala Ser Leu Glu Val Leu Phe Gln Gly Pro Xaa

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<210> 65  
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<400> 65  
Cys Xaa Thr Glu Ser Leu Val Asn Arg  
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<210> 66  
<211> 22  
<212> PRT  
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<220>  
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<400> 66  
Asp Ala Ile Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu  
1 5 10 15  
Asp Lys Asp Val Xaa Lys  
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<210> 67  
<211> 12  
<212> PRT  
<213> Borus torus

<220>  
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<223> Xaa = Modified Cysteine

<400> 67  
Glu Tyr Glu Ala Thr Leu Glu Glu Cys Xaa Ala Lys  
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<210> 68  
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<220>  
<221> VARIANT

<222> 10  
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Ala Cys Tyr Ser Thr Val Phe Asp Lys  
20 25

<210> 69  
<211> 16  
<212> PRT  
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<220>  
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<222> 9  
<223> Xaa = Modified Cysteine

<400> 69  
Leu Phe Thr Phe His Ala Asp Ile Xaa Thr Leu Pro Asp Thr Glu Lys  
1 5 10 15

<210> 70  
<211> 12  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 4  
<223> Xaa = Modified Cysteine

<400> 70  
Leu Lys Glu Xaa Cys Asp Lys Pro Leu Leu Glu Lys  
1 5 10

<210> 71  
<211> 13  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 9  
<223> Xaa = Modified Cysteine

<400> 71  
Leu Lys Pro Asp Pro Asn Thr Leu Xaa Asp Glu Phe Lys  
1 5 10

<210> 72  
<211> 14

<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa = Oxidized Methionine

<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 72  
Xaa Pro Xaa Thr Glu Asp Tyr Leu Ser Leu Ile Leu Asn Arg  
1 5 10

<210> 73  
<211> 14  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 73  
Met Pro Xaa Thr Glu Asp Tyr Leu Ser Leu Ile Leu Asn Arg  
1 5 10

<210> 74  
<211> 16  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 74  
Asn Glu Xaa Phe Leu Ser His Lys Asp Asp Ser Pro Asp Leu Pro Lys  
1 5 10 15

<210> 75  
<211> 16  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 75  
Arg Pro Xaa Phe Ser Ala Leu Thr Pro Asp Glu Thr Tyr Val Pro Lys  
1 5 10 15

<210> 76  
<211> 9  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 76  
Ser His Xaa Ile Ala Glu Val Glu Lys  
1 5

<210> 77  
<211> 12  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 11  
<223> Xaa = Modified Cysteine

<400> 77  
Ser Leu His Thr Leu Phe Gly Asp Glu Leu Xaa Lys  
1 5 10

<210> 78  
<211> 12  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 78  
Tyr Ile Xaa Asp Asn Gln Asp Thr Ile Ser Ser Lys  
1 5 10

<210> 79  
<211> 14  
<212> PRT  
<213> Borus torus

<220>  
<221> VARIANT

<222> 9  
 <223> Xaa = Modified Cysteine

<400> 79  
 Tyr Asn Gly Val Phe Gln Glu Cys Xaa Gln Ala Glu Asp Lys  
 1 5 10

<210> 80  
 <211> 23  
 <212> PRT  
 <213> Eschericia coli

<220>  
 <221> VARIANT  
 <222> 18  
 <223> Xaa = Modified Cysteine

<400> 80  
 Ala Val Val Glu Leu His Thr Ala Asp Gly Thr Leu Ile Glu Ala Glu  
 1 5 10 15  
 Ala Xaa Asp Val Gly Phe Arg  
 20

<210> 81  
 <211> 13  
 <212> PRT  
 <213> Eschericia coli

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 81  
 Ile Gly Leu Asn Xaa Gln Leu Ala Gln Val Ala Glu Arg  
 1 5 10

<210> 82  
 <211> 26  
 <212> PRT  
 <213> Eschericia coli

<220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa = Modified Cysteine

<221> VARIANT  
 <222> 23  
 <223> Xaa = Oxidized Methionine

<400> 82  
 Pro Ser Arg Pro Val Gln Tyr Glu Gly Gly Gly Ala Asp Thr Thr Ala  
 1 5 10 15



Thr Asp Ile Ile Xaa Pro Xaa Tyr Ala Arg  
20 25

<210> 83  
<211> 26  
<212> PRT  
<213> Eschericia coli

<220>  
<221> VARIANT  
<222> 21  
<223> Xaa = Modified Cysteine

<400> 83  
Pro Ser Arg Pro Val Gln Tyr Glu Gly Gly Gly Ala Asp Thr Thr Ala  
1 5 10 15  
Thr Asp Ile Ile Xaa Pro Met Tyr Ala Arg  
20 25

<210> 84  
<211> 23  
<212> PRT  
<213> Eschericia coli

<220>  
<221> VARIANT  
<222> 18  
<223> Xaa = Modified Cysteine

<400> 84  
Pro Val Gln Tyr Glu Gly Gly Gly Ala Asp Thr Thr Ala Thr Asp Ile  
1 5 10 15  
Ile Xaa Pro Met Tyr Ala Arg  
20

<210> 85  
<211> 29  
<212> PRT  
<213> Eschericia coli

<220>  
<221> VARIANT  
<222> 24  
<223> Xaa = Modified Cysteine

<221> VARIANT  
<222> 26  
<223> Xaa = Oxidized Methionine

<400> 85  
Ser Val Asp Pro Ser Arg Pro Val Gln Tyr Glu Gly Gly Gly Ala Asp  
1 5 10 15  
Thr Thr Ala Thr Asp Ile Ile Xaa Pro Xaa Tyr Ala Arg  
20 25

<210> 86  
<211> 29  
<212> PRT  
<213> Eschericia coli

<220>  
<221> VARIANT  
<222> 24  
<223> Xaa = Modified Cysteine

<400> 86  
Ser Val Asp Pro Ser Arg Pro Val Gln Tyr Glu Gly Gly Gly Ala Asp  
1 5 10 15  
Thr Thr Ala Thr Asp Ile Ile Xaa Pro Met Tyr Ala Arg  
20 25

<210> 87  
<211> 17  
<212> PRT  
<213> Oryctolagus cuniculus

<220>  
<221> VARIANT  
<222> 7  
<223> Xaa = Modified Cysteine

<400> 87  
Ile Val Ser Asn Ala Ser Xaa Thr Thr Asn Cys Leu Ala Pro Leu Ala  
1 5 10 15  
Lys

<210> 88  
<211> 17  
<212> PRT  
<213> Oryctolagus cuniculus

<220>  
<221> VARIANT  
<222> 11  
<223> Xaa = Modified Cysteine

<400> 88  
Ile Val Ser Asn Ala Ser Cys Thr Thr Asn Xaa Leu Ala Pro Leu Ala  
1 5 10 15  
Lys

<210> 89  
<211> 14  
<212> PRT  
<213> Oryctolagus cuniculus

<220>  
 <221> VARIANT  
 <222> 13  
 <223> Xaa = Modified Cysteine  
  
 <400> 89  
 Val Pro Thr Pro Asn Val Ser Val Val Asp Leu Thr Xaa Arg  
 1                      5                      10

<210> 90  
 <211> 14  
 <212> PRT  
 <213> Bos torus

<220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa = Modified Cysteine

<400> 90  
 Leu Ser Phe Asn Pro Thr Gln Leu Glu Glu Gln Xaa His Ile  
 1                      5                      10

<210> 91  
 <211> 17  
 <212> PRT  
 <213> Bos torus

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa = Modified Cysteine

<400> 91  
 Asp Asp Gln Asn Pro His Ser Ser Asn Ile Xaa Asn Ile Ser Cys Asp  
 1                      5                      10                      15  
 Lys

<210> 92  
 <211> 17  
 <212> PRT  
 <213> Bos torus

<220>  
 <221> VARIANT  
 <222> 15  
 <223> Xaa = Modified Cysteine

<400> 92  
 Asp Asp Gln Asn Pro His Ser Ser Asn Ile Cys Asn Ile Ser Xaa Asp  
 1                      5                      10                      15  
 Lys

<210> 93  
<211> 14  
<212> PRT  
<213> Bos torus

<220>  
<221> VARIANT  
<222> 11  
<223> Xaa = Oxidized Methionine

<221> VARIANT  
<222> 12  
<223> Xaa = Modified Cysteine

<400> 93  
Phe Leu Asp Asp Asp Leu Thr Asp Asp Ile Xaa Xaa Val Lys  
1 5 10

<210> 94  
<211> 14  
<212> PRT  
<213> Bos torus

<220>  
<221> VARIANT  
<222> 12  
<223> Xaa = Modified Cysteine

<400> 94  
Phe Leu Asp Asp Asp Leu Thr Asp Asp Ile Met Xaa Val Lys  
1 5 10

<210> 95  
<211> 8  
<212> PRT  
<213> Bos torus

<220>  
<221> VARIANT  
<222> 6  
<223> Xaa = Modified Cysteine

<400> 95  
Leu Asp Gln Trp Leu Xaa Glu Lys  
1 5

<210> 96  
<211> 23  
<212> PRT  
<213> Bos torus

<220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa = Modified Cysteine  
  
 <400> 96  
 Asn Ile Cys Asn Ile Ser Cys Asp Lys Phe Leu Asp Asp Asp Leu Thr  
 1 5 10 15  
 Asp Asp Ile Met Xaa Val Lys  
 20

<210> 97  
 <211> 11  
 <212> PRT  
 <213> Bos torus

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 97  
 Ser Ser Asn Ile Xaa Asn Ile Ser Cys Asp Lys  
 1 5 10

<210> 98  
 <211> 10  
 <212> PRT  
 <213> Gallus gallus

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 98  
 Ala Asp His Pro Phe Leu Phe Xaa Ile Lys  
 1 5 10

<210> 99  
 <211> 12  
 <212> PRT  
 <213> Gallus gallus

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 99  
 Tyr Pro Ile Leu Pro Glu Tyr Leu Gln Xaa Val Lys  
 1 5 10

<210> 100  
<211> 34  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa = Modified Cysteine

<400> 100  
Xaa Val Val Glu Asp Asp Lys Val Ser Leu Asp Asp Leu Gln Gln Ser  
1 5 10 15  
Ile Glu Glu Asp Glu Asp His Val Gln Ser Thr Asp Ile Ala Ala Met  
20 25 30  
Gln Lys

<210> 101  
<211> 15  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 12  
<223> Xaa = Modified Cysteine

<400> 101  
Ala Val Gly Ile Asp Leu Gly Thr Thr Tyr Ser Xaa Val Ala His  
1 5 10 15

<210> 102  
<211> 20  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 12  
<223> Xaa = Modified Cysteine

<400> 102  
Ala Val Gly Ile Asp Leu Gly Thr Thr Tyr Ser Xaa Val Ala His Phe  
1 5 10 15  
Ala Asn Asp Arg  
20

<210> 103  
<211> 10  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 5

<223> Xaa = Modified Cysteine

<400> 103

Phe Glu Glu Leu Xaa Ala Asp Leu Phe Arg

1

5

10

<210> 104

<211> 25

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 16

<223> Xaa = Modified Cysteine

<400> 104

Ala Glu Val Ser Asp Val Gly Asn Ala Ile Leu Asp Gly Ala Asp Xaa

1

5

10

15

Val Met Leu Ser Gly Glu Thr Ala Lys

20

25

<210> 105

<211> 19

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 10

<223> Xaa = Modified Cysteine

<400> 105

Gly Asn Ala Ile Leu Asp Gly Ala Asp Xaa Val Met Leu Ser Gly Glu

1

5

10

15

Thr Ala Lys

<210> 106

<211> 25

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 2

<223> Xaa = Modified Cysteine

<400> 106

Asn Xaa Thr Pro Lys Pro Thr Ser Thr Thr Glu Thr Val Ala Ala Ser

1

5

10

15

Ala Val Ala Ala Val Phe Glu Gln Lys

<210> 107  
 <211> 17  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 4  
 <223> Xaa = Modified Cysteine

<400> 107  
 Pro Val Ile Xaa Ala Thr Gln Met Leu Glu Ser Met Thr Tyr Asn Pro  
 1 5 10 15  
 Arg

<210> 108  
 <211> 23  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<221> VARIANT  
 <222> 18  
 <223> Xaa = Oxidized Methionine

<400> 108  
 Ser Asn Leu Ala Gly Lys Pro Val Ile Xaa Ala Thr Gln Met Leu Glu  
 1 5 10 15  
 Ser Xaa Thr Tyr Asn Pro Arg  
 20

<210> 109  
 <211> 23  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 109  
 Ser Asn Leu Ala Gly Lys Pro Val Ile Xaa Ala Thr Gln Met Leu Glu  
 1 5 10 15  
 Ser Met Thr Tyr Asn Pro Arg  
 20



<210> 110  
<211> 12  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 5  
<223> Xaa = Modified Cysteine

<400> 110  
Tyr Arg Pro Asn Xaa Pro Ile Ile Leu Val Thr Arg  
1 5 10

<210> 111  
<211> 22  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 6  
<223> Xaa = Modified Cysteine

<400> 111  
Leu Val Tyr Ser Thr Xaa Ser Leu Asn Pro Ile Glu Asn Glu Ala Val  
1 5 10 15  
Val Ala Glu Ala Leu Arg  
20

<210> 112  
<211> 15  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 13  
<223> Xaa = Modified Cysteine

<400> 112  
Leu Pro Asn Gln Thr Leu Gly Glu Ile Trp Ala Leu Xaa Asp Arg  
1 5 10 15

<210> 113  
<211> 16  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa = Modified Cysteine



Ser Gly Ala Arg  
20

<210> 117  
<211> 15  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 8  
<223> Xaa = Modified Cysteine

<400> 117  
Pro Val Gly Ala Ile Met Asn Xaa Ala Asp Asn Ser Gly Ala Arg  
1                   5                   10                   15

<210> 118  
<211> 20  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa = Modified Cysteine

<400> 118  
Xaa Pro Leu Gly Asn Pro Ala Asn Tyr Pro Phe Ala Thr Ile Asp Pro  
1                   5                   10                   15  
Glu Glu Ala Arg  
20

<210> 119  
<211> 15  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 9  
<223> Xaa = Modified Cysteine

<400> 119  
Leu Asp Leu Ile Ser Phe Phe Thr Xaa Gly Pro Asp Glu Val Arg  
1                   5                   10                   15

<210> 120  
<211> 11  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine  
  
 <400> 120  
 Pro Xaa Ile Tyr Leu Ile Asn Leu Ser Glu Arg  
 1                      5                      10  
  
 <210> 121  
 <211> 10  
 <212> PRT  
 <213> Saccharomyces cerevisiae  
  
 <400> 121  
 Ser Val Asp Ser Ile Tyr Gln Val Val Arg  
 1                      5                      10  
  
 <210> 122  
 <211> 11  
 <212> PRT  
 <213> Saccharomyces cerevisiae  
  
 <220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine  
  
 <400> 122  
 Ser Gly Gln Gly Ala Phe Gly Asn Met Xaa Arg  
 1                      5                      10  
  
 <210> 123  
 <211> 10  
 <212> PRT  
 <213> Saccharomyces cerevisiae  
  
 <220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Modified Cysteine  
  
 <400> 123  
 Xaa Pro Phe Thr Gly Leu Val Ser Ile Arg  
 1                      5                      10  
  
 <210> 124  
 <211> 13  
 <212> PRT  
 <213> Saccharomyces cerevisiae  
  
 <220>  
 <221> VARIANT  
 <222> 12

<223> Xaa = Modified Cysteine

<400> 124

Val Gln Val Gly Asp Ile Val Thr Val Gly Gln Xaa Arg  
1 5 10

<210> 125

<211> 17

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 12

<223> Xaa = Modified Cysteine

<400> 125

Val Gln Val Gly Asp Ile Val Thr Val Gly Gln Xaa Arg Pro Ile Ser  
1 5 10 15  
Lys

<210> 126

<211> 26

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 22

<223> Xaa = Modified Cysteine

<400> 126

Ala Thr Val Ile Val Leu Asn His Pro Gly Gln Ile Ser Ala Gly Tyr  
1 5 10 15  
Ser Pro Val Leu Asp Xaa His Thr Ala His  
20 25

<210> 127

<211> 13

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 1

<223> Xaa = Modified Cysteine

<400> 127

Xaa Val Glu Ala Phe Ser Glu Tyr Pro Pro Leu Gly Arg  
1 5 10

<210> 128

<211> 27  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa = Modified Cysteine  
  
 <400> 128  
 Asn Ala Thr Val Ile Val Leu Asn His Pro Gly Gln Ile Ser Ala Gly  
 1                      5                      10                      15  
 Tyr Ser Pro Val Leu Asp Xaa His Thr Ala His  
                     20                      25

<210> 129  
 <211> 29  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Oxidized Methionine

<221> VARIANT  
 <222> 11  
 <223> Xaa = Modified Cysteine

<400> 129  
 Asn Xaa Ile Thr Gly Thr Ser Gln Ala Asp Xaa Ala Ile Leu Ile Ile  
 1                      5                      10                      15  
 Ala Gly Gly Val Gly Glu Phe Glu Ala Gly Ile Ser Lys  
                     20                      25

<210> 130  
 <211> 29  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa = Modified Cysteine

<400> 130  
 Asn Met Ile Thr Gly Thr Ser Gln Ala Asp Xaa Ala Ile Leu Ile Ile  
 1                      5                      10                      15  
 Ala Gly Gly Val Gly Glu Phe Glu Ala Gly Ile Ser Lys  
                     20                      25

<210> 131  
 <211> 15  
 <212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 3

<223> Xaa = Modified Cysteine

<400> 131

Pro	Met	Xaa	Val	Glu	Ala	Phe	Ser	Glu	Tyr	Pro	Pro	Leu	Gly	Arg
1				5					10					15

<210> 132

<211> 18

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 6

<223> Xaa = Modified Cysteine

<400> 132

Pro	Ser	Lys	Pro	Met	Xaa	Val	Glu	Ala	Phe	Ser	Glu	Tyr	Pro	Pro	Leu
1				5					10					15	

Gly Arg

<210> 133

<211> 20

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 19

<223> Xaa = Modified Cysteine

<400> 133

Ile	Pro	Ile	Phe	Ser	Ala	Ser	Gly	Leu	Pro	His	Asn	Glu	Ile	Ala	Ala
1				5					10					15	

Gln Ile Xaa Arg  
20

<210> 134

<211> 14

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 6

<223> Xaa = Modified Cysteine

<400> 134

Gly Ala Ala Phe Ile Xaa Ala Ile His Ser Pro Thr Leu Arg  
 1 5 10

<210> 135  
 <211> 10  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 135  
 Gly Asn Glu His Xaa Phe Val Ile Leu Arg  
 1 5 10

<210> 136  
 <211> 28  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa = Modified Cysteine

<221> VARIANT  
 <222> 24  
 <223> Xaa = Oxidized Methionine

<400> 136  
 Asn Gly Thr Asp Gly Thr Leu Asn Val Ala Val Asp Ala Xaa Gln Ala  
 1 5 10 15  
 Ala Ala His Ser His His Phe Xaa Gly Val Thr Lys  
 20 25

<210> 137  
 <211> 28  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa = Modified Cysteine

<400> 137  
 Asn Gly Thr Asp Gly Thr Leu Asn Val Ala Val Asp Ala Xaa Gln Ala  
 1 5 10 15  
 Ala Ala His Ser His His Phe Met Gly Val Thr Lys  
 20 25



<210> 138  
 <211> 22  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine  
  
 <400> 138  
 Val Leu Val Ile Val Gly Pro Xaa Ser Ile His Asp Leu Glu Ala Ala  
 1 5 10 15  
 Gln Glu Tyr Ala Leu Arg  
 20

<210> 139  
 <211> 37  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa = Modified Cysteine

<400> 139  
 Val Asn Asp Val Val Xaa Glu Gln Ile Ala Asn Gly Glu Asn Ala Ile  
 1 5 10 15  
 Thr Gly Val Met Ile Glu Ser Asn Ile Asn Glu Gly Asn Gln Gly Ile  
 20 25 30  
 Pro Ala Glu Gly Lys  
 35

<210> 140  
 <211> 20  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa = Modified Cysteine

<400> 140  
 Tyr Gly Val Ser Ile Thr Asp Ala Xaa Ile Gly Trp Glu Thr Thr Glu  
 1 5 10 15  
 Asp Val Leu Arg  
 20

<210> 141  
 <211> 16  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa = Modified Cysteine  
  
 <400> 141  
 Glu Ile Ser Gln Gly Xaa Gly Ala Tyr Leu Met Ser Asp Met Ala His  
 1 5 10 15  
  
 <210> 142  
 <211> 12  
 <212> PRT  
 <213> Saccharomyces cerevisiae  
  
 <220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Any Amino Acid  
  
 <400> 142  
 Leu Val Glu Pro Phe Gly Val Leu Glu Xaa Ala Arg  
 1 5 10  
  
 <210> 143  
 <211> 23  
 <212> PRT  
 <213> Saccharomyces cerevisiae  
  
 <220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa = Modified Cysteine  
  
 <400> 143  
 Phe His Ala Ala Gln Leu Pro Thr Glu Thr Leu Glu Val Glu Thr Gln  
 1 5 10 15  
 Pro Gly Val Leu Xaa Ser Arg  
 20  
  
 <210> 144  
 <211> 8  
 <212> PRT  
 <213> Saccharomyces cerevisiae  
  
 <220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa = Any Amino AcidXaa = Modified Cysteine  
  
 <400> 144  
 Asp His Xaa Ile Val Val Gly Arg  
 1 5

<210> 145  
<211> 20  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 8  
<223> Xaa = Modified Cysteine

<400> 145  
Met Leu Ile Gly Met Val Asp Xaa Val Phe Ala Asp Val Ala Gln Pro  
1 5 10 15  
Asp Gln Ala Arg  
20

<210> 146  
<211> 19  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 14  
<223> Xaa = Modified Cysteine

<400> 146  
Asp Asn Ser Pro Phe Phe Val Leu Asn Ser Asp Val Ile Xaa Glu Tyr  
1 5 10 15  
Pro Phe Lys

<210> 147  
<211> 15  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 14  
<223> Xaa = Modified Cysteine

<400> 147  
Ser Thr Ile Val Gly Trp Asn Ser Thr Val Gly Gln Trp Xaa Arg  
1 5 10 15

<210> 148  
<211> 10  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT

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<222> 5
<223> Xaa = Modified Cysteine

<400> 148
Ser Val Val Leu Xaa Asn Ser Thr Ile Lys
 1             5             10

<210> 149
<211> 10
<212> PRT
<213> Saccharomyces cerevisiae

<220>
<221> VARIANT
<222> 2
<223> Xaa = Modified Cysteine

<400> 149
Val Xaa Ser Ser His Thr Gly Leu Val Arg
 1             5             10

<210> 150
<211> 10
<212> PRT
<213> Saccharomyces cerevisiae

<220>
<221> VARIANT
<222> 1
<223> Xaa = Modified Cysteine

<400> 150
Xaa Ala Thr Ile Thr Pro Asp Glu Ala Arg
 1             5             10

<210> 151
<211> 17
<212> PRT
<213> Saccharomyces cerevisiae

<220>
<221> VARIANT
<222> 16
<223> Xaa = Modified Cysteine

<400> 151
Ser His Phe Asn Ala Leu Tyr Asp Thr Leu Leu Glu Ser Asn Leu Xaa
 1             5             10             15
Lys

<210> 152
<211> 18

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<212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 17  
 <223> Xaa = Modified Cysteine  
  
 <400> 152  
 Asp Thr Val Leu Ile Val Leu Ile Asp Asp Glu Leu Glu Asp Gly Ala  
 1 5 10 15  
 Xaa Arg

<210> 153  
 <211> 14  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 153  
 Leu Gly Asp Leu Val Thr Ile His Pro Xaa Pro Asp Ile Lys  
 1 5 10

<210> 154  
 <211> 26  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa = Modified Cysteine

<400> 154  
 Asp Ile Glu Asn Leu Val Ala Asp Ala Val Glu Val Asn Ile Pro Phe  
 1 5 10 15  
 Asn Asn Pro Ile Thr Gly Phe Xaa Ala Phe  
 20 25

<210> 155  
 <211> 13  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa = Modified Cysteine

<400> 155  
 Val Gly Ile Ala Asp Thr Val Gly Xaa Ala Asn Pro Arg  
 1 5 10

<210> 156  
 <211> 14  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 4  
 <223> Xaa = Modified Cysteine

<400> 156  
 Ser Ile Ala Xaa Val Leu Thr Val Ile Asn Glu Gln Gln Arg  
 1 5 10

<210> 157  
 <211> 27  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 157  
 Glu Arg Val Asn Xaa Lys Glu Asn Thr Leu Leu Gly Glu Phe Asp Leu  
 1 5 10 15  
 Lys Asn Ile Pro Met Met Pro Ala Gly Glu Pro  
 20 25

<210> 158  
 <211> 21  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 158  
 Thr Phe Thr Thr Xaa Ala Asp Asn Gln Thr Thr Val Gln Phe Pro Val  
 1 5 10 15  
 Tyr Gln Gly Glu Arg  
 20

<210> 159  
 <211> 21  
 <212> PRT

<213> *Saccharomyces cerevisiae*  
 <220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine  
 <400> 159  
 Ile Xaa Ala Asn His Ile Ile Ala Pro Glu Tyr Thr Leu Lys Pro Asn  
 1 5 10 15  
 Val Gly Ser Asp Arg  
 20

<210> 160  
 <211> 12  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
 <220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine  
 <400> 160  
 Ile Met Ile Asp Xaa Ser His Gly Asn Ser Asn Lys  
 1 5 10

<210> 161  
 <211> 28  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
 <220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa = Modified Cysteine  
 <400> 161  
 Leu Pro Ile Ala Gly Glu Met Leu Asp Thr Ile Ser Pro Gln Phe Leu  
 1 5 10 15  
 Ser Asp Xaa Phe Ser Leu Gly Ala Ile Gly Ala Arg  
 20 25

<210> 162  
 <211> 11  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
 <220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa = Modified Cysteine  
 <400> 162

Leu Glu Xaa Pro Pro Pro Leu Thr Asn Ala Arg  
 1 5 10

<210> 163  
 <211> 17  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 163  
 Tyr Asp Ser Ile Glu Val Ser Gly Gly Xaa Pro Ile Val Ile Gly Leu  
 1 5 10 15  
 Arg

<210> 164  
 <211> 11  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa = Modified Cysteine

<400> 164  
 Ala Pro Glu Ser Leu Leu Thr Gly Xaa Asn Arg  
 1 5 10

<210> 165  
 <211> 13  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa = Modified Cysteine

<400> 165  
 Ala Leu Ile Leu Ala Ala Leu Gly Glu Gly Gln Xaa Lys  
 1 5 10

<210> 166  
 <211> 23  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>



<221> VARIANT  
 <222> 17  
 <223> Xaa = Modified Cysteine  
  
 <400> 166  
 Ala Gly Pro Asn Thr Asn Gly Ser Gln Phe Phe Ile Thr Thr Val Pro  
   1                  5                  10                  15  
 Xaa Pro Trp Leu Asp Gly Lys  
                   20

<210> 167  
 <211> 25  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa = Modified Cysteine

<400> 167  
 Ala Asn Ala Gly Pro Asn Thr Asn Gly Ser Gln Phe Phe Ile Thr Thr  
   1                  5                  10                  15  
 Val Pro Xaa Pro Trp Leu Asp Gly Lys  
                   20                  25

<210> 168  
 <211> 31  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa = Oxidized Methionine

<221> VARIANT  
 <222> 25  
 <223> Xaa = Modified Cysteine

<400> 168  
 Pro Gly Leu Leu Ser Xaa Ala Asn Ala Gly Pro Asn Thr Asn Gly Ser  
   1                  5                  10                  15  
 Gln Phe Phe Ile Thr Thr Val Pro Xaa Pro Trp Leu Asp Gly Lys  
                   20                  25                  30

<210> 169  
 <211> 14  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 10

<223> Xaa = Modified Cysteine

<400> 169

Val Ala Val Ser Asp Gly His Thr Glu Xaa Ile Ser Leu Arg  
1 5 10

<210> 170

<211> 25

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 18

<223> Xaa = Modified Cysteine

<400> 170

Ala Ala Ala Ala Gln Asp Glu Ile Thr Gly Asp Gly Thr Thr Thr Val  
1 5 10 15  
Val Xaa Leu Val Gly Glu Leu Leu Arg  
20 25

<210> 171

<211> 21

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 16

<223> Xaa = Modified Cysteine

<400> 171

Asn Ala Ile Thr Gly Ala Thr Gly Ile Ala Ser Asn Leu Leu Leu Xaa  
1 5 10 15  
Asp Glu Leu Leu Arg  
20

<210> 172

<211> 17

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 4

<223> Xaa = Modified Cysteine

<400> 172

Val Pro Phe Xaa Pro Leu Val Gly Ser Glu Leu Tyr Ser Val Glu Val  
1 5 10 15  
Lys

<210> 173  
<211> 18  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 9  
<223> Xaa = Modified Cysteine

<400> 173  
Tyr Ala Leu Gln Leu Leu Ala Pro Xaa Gly Ile Leu Ala Gln Thr Ser  
1 5 10 15  
Asn Arg

<210> 174  
<211> 10  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 9  
<223> Xaa = Modified Cysteine

<400> 174  
Asp Glu Leu Thr Asn Asn Pro Ala Xaa Lys  
1 5 10

<210> 175  
<211> 16  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 13  
<223> Xaa = Modified Cysteine

<400> 175  
Ser Gln Asn Ala Ala Val Asn Gly Ser Gly Ile Ala Xaa Gln Gln Arg  
1 5 10 15

<210> 176  
<211> 22  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 14  
<223> Xaa = Modified Cysteine

<400> 176  
 Asn Lys Pro Leu Ala Val Ile Gly Gly Gly Asp Ser Ala Xaa Glu Glu  
   1                  5                  10                  15  
 Ala Gln Phe Leu Thr Lys  
                   20

<210> 177  
 <211> 18  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa = Modified Cysteine

<400> 177  
 Ala Glu Gln Leu Tyr Glu Gly Pro Ala Asp Asp Ala Asn Xaa Ile Ala  
   1                  5                  10                  15  
 Ile Lys

<210> 178  
 <211> 19  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa = Modified Cysteine

<400> 178  
 Ile Trp Xaa Phe Gly Pro Asp Gly Asn Gly Pro Asn Leu Val Ile Asp  
   1                  5                  10                  15  
 Gln Thr Lys

<210> 179  
 <211> 24  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 16  
 <223> Xaa = Modified Cysteine

<400> 179  
 Val Thr Asp Gly Ala Leu Val Val Val Asp Thr Ile Glu Gly Val Xaa  
   1                  5                  10                  15  
 Val Gln Thr Glu Thr Val Leu Arg  
                   20

<210> 180  
 <211> 12  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa = Modified Cysteine  
  
 <400> 180  
 Glu Ile Leu Gly Thr Ala Gln Ser Val Gly Xaa Arg  
 1                      5                      10  
  
 <210> 181  
 <211> 11  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine  
  
 <400> 181  
 Leu Xaa Asp Glu Ile Ala Thr Ile Gln Ser Lys  
 1                      5                      10  
  
 <210> 182  
 <211> 11  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine  
  
 <400> 182  
 Gly His Thr Glu Ala Gly Val Asp Leu Xaa Lys  
 1                      5                      10  
  
 <210> 183  
 <211> 9  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 183  
Ser Leu Val Ala Ala Gly Leu Xaa Lys  
1 5

<210> 184  
<211> 23  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 2  
<223> Xaa = Modified Cysteine

<400> 184  
Thr Xaa Asn Val Leu Val Ala Ile Glu Gln Gln Ser Pro Asp Ile Ala  
1 5 10 15  
Gln Gly Leu His Tyr Glu Lys  
20

<210> 185  
<211> 15  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 12  
<223> Xaa = Modified Cysteine

<400> 185  
Thr His Leu Met Gln Pro Pro Tyr Ser Ile Leu Xaa Asp Tyr Arg  
1 5 10 15

<210> 186  
<211> 14  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 9  
<223> Xaa = Modified Cysteine

<400> 186  
Leu Gly Gly Ser Ser Leu Leu Glu Xaa Val Val Phe Gly Arg  
1 5 10

<210> 187  
<211> 28  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine  
  
 <400> 187  
 Phe Val Leu Ser Gly Ala Asn Ile Met Xaa Pro Gly Leu Thr Ser Ala  
 1 5 10 15  
 Gly Ala Asp Leu Pro Pro Ala Pro Gly Tyr Glu Lys  
 20 25

<210> 188  
 <211> 19  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 16  
 <223> Xaa = Modified Cysteine

<400> 188  
 His Tyr Ser Lys Pro Asp Gly Pro Asn Asn Asn Val Ala Val Val Xaa  
 1 5 10 15  
 Ser Ala Arg

<210> 189  
 <211> 12  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Modified Cysteine

<400> 189  
 Xaa Asp Leu Gly Ile Thr Gly Val Asp Gln Val Arg  
 1 5 10

<210> 190  
 <211> 11  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa = Modified Cysteine

<400> 190  
 Gly Met Leu Thr Gly Pro Ile Thr Xaa Leu Arg  
 1 5 10

<210> 191  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 11  
<223> Xaa = Modified Cysteine

<400> 191  
Ala Gln His Glu Ser Ser Ser Pro Val Leu Xaa Thr Arg  
1 5 10

<210> 192  
<211> 14  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 2  
<223> Xaa = Modified Cysteine

<400> 192  
Ile Xaa Gly Asp Ile His Gly Gln Tyr Tyr Asp Leu Leu Arg  
1 5 10

<210> 193  
<211> 19  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 193  
Ile Phe Xaa Met His Gly Gly Leu Ser Pro Asp Leu Asn Ser Met Glu  
1 5 10 15  
Gln Ile Arg

<210> 194  
<211> 12  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 9



<223> Xaa = Modified Cysteine

<400> 194

Ser Glu His Gln Val Glu Leu Ile Xaa Ser Tyr Arg  
1 5 10

<210> 195

<211> 13

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 10

<223> Xaa = Modified Cysteine

<400> 195

Ala Ala Gln Leu Gly Phe Asn Thr Ala Xaa Val Glu Lys  
1 5 10

<210> 196

<211> 23

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 2

<223> Xaa = Modified Cysteine

<400> 196

Leu Xaa Tyr Val Ala Leu Asp Phe Glu Gln Glu Met Gln Thr Ala Ala  
1 5 10 15  
Gln Ser Ser Ser Ile Glu Lys  
20

<210> 197

<211> 9

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 3

<223> Xaa = Modified Cysteine

<400> 197

Thr Tyr Xaa Leu Gln His Val Glu Lys  
1 5

<210> 198

<211> 18

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 14

<223> Xaa = Modified Cysteine

<400> 198

Glu	Ala	Glu	Ile	Leu	Val	Val	Thr	Gly	Asp	Asn	Phe	Gly	Xaa	Gly	Ser
1				5				10						15	
Ser Arg															

<210> 199

<211> 16

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 2

<223> Xaa = Modified Cysteine

<400> 199

His	Xaa	Leu	Val	Asn	Gly	Leu	Asp	Asp	Ile	Gly	Ile	Thr	Leu	Gln	Lys
1				5					10					15	

<210> 200

<211> 17

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 3

<223> Xaa = Modified Cysteine

<400> 200

Val	Asp	Xaa	Thr	Leu	Ala	Thr	Val	Asp	His	Asn	Ile	Pro	Thr	Glu	Ser
1				5				10						15	
Arg															

<210> 201

<211> 10

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 6

<223> Xaa = Modified Cysteine

<400> 201

Val Phe Ile Gly Ser Xaa Thr Asn Gly Arg  
 1 5 10

<210> 202  
 <211> 18  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 16  
 <223> Xaa = Modified Cysteine

<400> 202  
 Phe Gly Asp Phe Gly Gly Gln Tyr Val Pro Glu Ala Leu His Ala Xaa  
 1 5 10 15  
 Leu Arg

<210> 203  
 <211> 29  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 203  
 Leu Pro Asp Ala Val Val Ala Xaa Val Gly Gly Gly Ser Asn Ser Thr  
 1 5 10 15  
 Gly Met Phe Ser Pro Phe Glu His Asp Thr Ser Val Lys  
 20 25

<210> 204  
 <211> 13  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 204  
 Leu Thr Glu His Xaa Gln Gly Ala Gln Ile Trp Leu Lys  
 1 5 10

<210> 205  
 <211> 21  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine  
  
 <400> 205  
 Ile Asn Leu Pro Xaa Val Asn Pro Thr Thr Gly Glu Val Gln Thr Asp  
 1 5 10 15  
 Phe His Thr Leu Arg  
 20

<210> 206  
 <211> 24  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa = Modified Cysteine  
  
 <400> 206  
 Ser Thr Ala Met Val Leu Xaa Gly Ser Asn Asp Asp Lys Val Glu Phe  
 1 5 10 15  
 Val Glu Pro Pro Lys Asp Ser Lys  
 20

<210> 207  
 <211> 13  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine

<400> 207  
 Ser Xaa Gly Val Asp Ala Met Ser Val Asp Asp Leu Lys  
 1 5 10

<210> 208  
 <211> 14  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine

<400> 208  
 Ser Xaa Gly Val Asp Ala Met Ser Val Asp Asp Leu Lys Lys

1

5

10

&lt;210&gt; 209

&lt;211&gt; 25

&lt;212&gt; PRT

<213> *Saccharomyces cerevisiae*

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; 24

&lt;223&gt; Xaa = Modified Cysteine

&lt;400&gt; 209

Asp Glu Ile Val Leu Ser Gly Asn Ser Val Glu Asp Val Ser Gln Asn

1

5

10

15

Ala Ala Asp Leu Gln Gln Ile Xaa Arg

20

25

&lt;210&gt; 210

&lt;211&gt; 27

&lt;212&gt; PRT

<213> *Saccharomyces cerevisiae*

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; 26

&lt;223&gt; Xaa = Modified Cysteine

&lt;400&gt; 210

Val Lys Asp Glu Ile Val Leu Ser Gly Asn Ser Val Glu Asp Val Ser

1

5

10

15

Gln Asn Ala Ala Asp Leu Gln Gln Ile Xaa Arg

20

25

&lt;210&gt; 211

&lt;211&gt; 12

&lt;212&gt; PRT

<213> *Saccharomyces cerevisiae*

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; 1

&lt;223&gt; Xaa = Modified Cysteine

&lt;400&gt; 211

Xaa Pro Asp Ala Ser Val Ala Gly Leu Met Val Lys

1

5

10

&lt;210&gt; 212

&lt;211&gt; 12

&lt;212&gt; PRT

<213> *Saccharomyces cerevisiae*

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<220>
<221> VARIANT
<222> 9
<223> Xaa = Modified Cysteine

<400> 212
Asp Ser Ile Gly Gly Val Val Thr Xaa Val Val Arg
 1             5             10

<210> 213
<211> 17
<212> PRT
<213> Saccharomyces cerevisiae

<220>
<221> VARIANT
<222> 2
<223> Xaa = Modified Cysteine

<400> 213
Asp Xaa Ile Val Asp Thr Ala Ala Gln Met Leu Glu Val Gln Asn Glu
 1             5             10             15
Ala

<210> 214
<211> 32
<212> PRT
<213> Saccharomyces cerevisiae

<220>
<221> VARIANT
<222> 30
<223> Xaa = Modified Cysteine

<400> 214
Asp Tyr Phe Pro Trp Asp Asn Leu Ser Val Asp Ser Pro Lys Pro Pro
 1             5             10             15
Phe Pro Gln Gly Ile Gly Ala Pro Ile Asp Glu Gln Asn Xaa Ile Lys
          20             25             30

<210> 215
<211> 10
<212> PRT
<213> Saccharomyces cerevisiae

<220>
<221> VARIANT
<222> 1
<223> Xaa = Modified Cysteine

<400> 215
Xaa Val His Phe Gln Asn Ser Tyr Tyr Arg
 1             5             10

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<210> 216  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 8  
<223> Xaa = Modified Cysteine

<400> 216  
Tyr Ser Ala Ala Asp Val Ala Xaa Trp Gly Ala Leu Arg  
1 5 10

<210> 217  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 11  
<223> Xaa = Modified Cysteine

<400> 217  
Ile Val Ser Asn Ala Ser Cys Thr Thr Asn Xaa Leu Ala Pro Leu Ala  
1 5 10 15  
Lys

<210> 218  
<211> 12  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 9  
<223> Xaa = Modified Cysteine

<400> 218  
Asn Gly His Pro Phe Phe Leu Pro Xaa Thr Pro Lys  
1 5 10

<210> 219  
<211> 19  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 10

<223> Xaa = Modified Cysteine

<400> 219

Ser Pro Val Thr Val Glu Asp Val Gly Xaa Thr Gly Ala Leu Thr Ala  
1 5 10 15  
Leu Leu Arg

<210> 220

<211> 17

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 1

<223> Xaa = Modified Cysteine

<400> 220

Xaa Asn Pro Asn Arg Pro Ile Tyr Trp Ile Gln Ser Ser Tyr Asp Glu  
1 5 10 15  
Lys

<210> 221

<211> 30

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 17

<223> Xaa = Modified Cysteine

<400> 221

Gln Ala Ala Gly Asn Leu Ile Ser Gln Gly Ile Asp Ala Leu Val Val  
1 5 10 15  
Xaa Gly Gly Asp Gly Ser Leu Thr Gly Ala Asp Leu Phe Arg  
20 25 30

<210> 222

<211> 12

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 5

<223> Xaa = Modified Cysteine

<400> 222

Ile Gly Leu Asp Xaa Ala Ser Ser Glu Phe Phe Lys  
1 5 10



<210> 223  
 <211> 16  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa = Modified Cysteine  
  
 <400> 223  
 Ala Gln Tyr Asp Ser Xaa Asp Phe Val Ala Asp Val Pro Pro Pro Lys  
 1 5 10 15  
  
 <210> 224  
 <211> 15  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 4  
 <223> Xaa = Modified Cysteine  
  
 <400> 224  
 Tyr Gly Thr Xaa Pro His Gly Gly Tyr Gly Ile Gly Thr Glu Arg  
 1 5 10 15  
  
 <210> 225  
 <211> 16  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Modified Cysteine  
  
 <400> 225  
 Xaa Ile Ala Ile Ile Pro Gln Phe Glu Leu Ser Thr Ala Asp Ser Arg  
 1 5 10 15  
  
 <210> 226  
 <211> 27  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa = Modified Cysteine  
  
 <400> 226

Ile	Thr	Val	Asp	Glu	Ala	Leu	Glu	His	Pro	Tyr	Leu	Ser	Ile	Trp	His
1				5					10					15	
Asp	Pro	Ala	Asp	Glu	Pro	Val	Xaa	Ser	Glu	Lys					
			20					25							

<210> 227  
 <211> 13  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Modified Cysteine

Xaa	Ala	Asn	Gly	Ala	Pro	Ala	Val	Glu	Val	Asp	Gly	Lys
1				5					10			

<210> 228  
 <211> 24  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa = Modified Cysteine

Glu	Ile	Gly	Trp	Asn	Asn	Glu	Asp	Ile	His	Val	Pro	Leu	Leu	Pro	Gly
1				5					10					15	
Glu	Gln	Xaa	Gly	Ala	Leu	Thr	Lys								
			20												

<210> 229  
 <211> 13  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine

Ile	Xaa	Leu	Pro	Thr	Phe	Glu	Ser	Glu	Glu	Leu	Ile	Lys
1				5					10			

<210> 230  
 <211> 17  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 230  
 Leu Gly Ala Asn Tyr Ala Pro Xaa Ile Leu Pro Gln Leu Gln Ala Ala  
 1 5 10 15  
 Lys

<210> 231  
 <211> 21  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa = Modified Cysteine

<400> 231  
 Leu Gly Gly Ile Gly Phe Ile His His Asn Xaa Thr Pro Glu Asp Gln  
 1 5 10 15  
 Ala Asp Met Val Arg  
 20

<210> 232  
 <211> 15  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa = Modified Cysteine

<400> 232  
 Leu Leu Ala Pro Gln Asp Ile Pro Val Leu Val Val Gly Xaa Arg  
 1 5 10 15

<210> 233  
 <211> 11  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 233  
 Val Ala Leu Asn Ser Ser Glu Xaa Leu Asn Lys

1 5 10

<210> 234  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 234  
Glu Gln Xaa Gln Gly Ala Leu Phe Gly Ala Val Gln Ser Pro Thr Thr  
1 5 10 15  
Lys

<210> 235  
<211> 16  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 15  
<223> Xaa = Modified Cysteine

<400> 235  
Ser Ile Val Thr Asn Gly Ser Asn Thr Val Ser Gly Ala Asn Xaa Arg  
1 5 10 15

<210> 236  
<211> 21  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 16  
<223> Xaa = Modified Cysteine

<400> 236  
Gly Gly Pro Phe Asp Glu Ile Pro Gln Ala Asp Ile Phe Ile Asn Xaa  
1 5 10 15  
Ile Tyr Leu Ser Lys  
20

<210> 237  
<211> 22  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa = Modified Cysteine

<400> 237  
 Tyr Arg Asn Val Ile Ala His Thr Leu Asp Glu Asn Glu Xaa Ala Pro  
 1 5 10 15  
 Val Pro Pro Ala Val Arg  
 20

<210> 238  
 <211> 13  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa = Modified Cysteine

<400> 238  
 Gly His Asn Ile Pro Xaa Thr Ser Thr Ile Ser Gly Arg  
 1 5 10

<210> 239  
 <211> 18  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 4  
 <223> Xaa = Modified Cysteine

<400> 239  
 Val His Ala Xaa Ile Gly Gly Thr Ser Phe Val Glu Asp Ala Glu Gly  
 1 5 10 15  
 Leu Arg

<210> 240  
 <211> 21  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa = Modified Cysteine

<400> 240  
 Asp Leu Pro Ser Ser Ile Ala Thr Asn Gln Glu Val Phe Asp Phe Leu  
 1 5 10 15

Glu Ser Xaa Ala Lys  
20

<210> 241  
<211> 27  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 25  
<223> Xaa = Modified Cysteine

<400> 241  
Glu Ile Ile Ala Asp Ser Phe Glu Thr Ile Met Met Ala Gln His Tyr  
1 5 10 15  
Asp Ala Asn Ile Ala Ile Pro Ser Xaa Asp Lys  
20 25

<210> 242  
<211> 13  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 9  
<223> Xaa = Modified Cysteine

<400> 242  
Leu Val Ser Asn Ala Ser Asn Gly Xaa Val Leu Asp Ala  
1 5 10

<210> 243  
<211> 22  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 8  
<223> Xaa = Modified Cysteine

<400> 243  
His Leu Gly Val Ile Gly Glu Xaa Asn Val Gln Tyr Ala Leu Gln Pro  
1 5 10 15  
Asp Gly Leu Asp Tyr Arg  
20

<210> 244  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 2  
<223> Xaa = Modified Cysteine

<400> 244  
Ile Xaa Leu Pro Thr Phe Asp Pro Glu Glu Leu Ile Thr Leu Ile Gly  
1 5 10 15  
Lys

<210> 245  
<211> 18  
<212> PRT  
<213> Saccharomyces cerevisiae

<220>  
<221> VARIANT  
<222> 8  
<223> Xaa = Modified Cysteine

<400> 245  
Leu Gly Ala Asn Tyr Ala Pro Xaa Val Leu Pro Gln Leu Gln Ala Ala  
1 5 10 15  
Ser Arg

<210> 246  
<211> 9  
<212> PRT  
<213> Saccharomyces cerevisiae

<220>  
<221> VARIANT  
<222> 7  
<223> Xaa = Modified Cysteine

<400> 246  
Trp Ala Ala Ala Val Xaa Glu Lys  
1 5

<210> 247  
<211> 18  
<212> PRT  
<213> Saccharomyces cerevisiae

<220>  
<221> VARIANT  
<222> 16  
<223> Xaa = Modified Cysteine

<400> 247  
Met Leu Asp Leu Ser Glu Glu Thr Asp Glu Glu Asn Ile Ser Thr Xaa

1	5	10	15
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Val Lys

  

<210> 248  
 <211> 19  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

  

<220>  
 <221> VARIANT  
 <222> 17  
 <223> Xaa = Modified Cysteine

  

<400> 248  
 Ser Ile Ala Pro Ala Tyr Gly Ile Pro Val Val Leu His Ser Asp His  
 1 5 10 15  
 Xaa Ala Lys

  

<210> 249  
 <211> 16  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

  

<220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa = Modified Cysteine

  

<400> 249  
 Val Asn Leu Asp Thr Asp Xaa Gln Tyr Ala Tyr Leu Thr Gly Ile Arg  
 1 5 10 15

  

<210> 250  
 <211> 17  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

  

<220>  
 <221> VARIANT  
 <222> 4  
 <223> Xaa = Modified Cysteine

  

<400> 250  
 Gly Tyr Thr Xaa Gln Phe Val Asp Met Val Leu Pro Asn Thr Ala Leu  
 1 5 10 15  
 Lys

  

<210> 251  
 <211> 14  
 <212> PRT



<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 2

<223> Xaa = Modified Cysteine

<400> 251

Thr Xaa Ile Leu His Gly Pro Val Ala Ala Gln Phe Thr Lys  
1 5 10

<210> 252

<211> 21

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 8

<223> Xaa = Modified Cysteine

<400> 252

Asp Ala Phe Glu His Leu Leu Xaa Gly Ala Ser Met Leu Gln Ile Gly  
1 5 10 15  
Thr Glu Leu Gln Lys  
20

<210> 253

<211> 33

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 16

<223> Xaa = Modified Cysteine

<400> 253

Ile Gln Asp Ser Glu Phe Asn Gly Ile Thr Glu Leu Asn Leu Ser Xaa  
1 5 10 15  
Pro Asn Val Pro Gly Lys Pro Gln Val Ala Tyr Asp Phe Asp Leu Thr  
20 25 30  
Lys

<210> 254

<211> 20

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 13

<223> Xaa = Modified Cysteine

<400> 254  
 Leu Pro Asp Ser Ala Leu Asp Leu Val Asp Ile Ser Xaa Ala Gly Val  
   1                  5                  10                  15  
 Ala Val Ala Arg  
                   20

<210> 255  
 <211> 15  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 255  
 Leu Ser Thr Val Ser Pro Val Phe Val Xaa Gln Ser Phe Ala Lys  
   1                  5                  10                  15

<210> 256  
 <211> 12  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 256  
 Asn Pro Val Ile Leu Ala Asp Ala Cys Xaa Ser Arg  
   1                  5                  10

<210> 257  
 <211> 8  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Oxidized Methionine

<221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 257  
 Xaa Glu Ile Leu Xaa Gln Gln Arg  
   1                  5

<210> 258  
<211> 9  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 4  
<223> Xaa = Modified Cysteine

<400> 258  
Met Leu Ser Xaa Ala Gly Ala Asp Arg  
1 5

<210> 259  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 16  
<223> Xaa = Modified Cysteine

<400> 259  
Phe Gln Tyr Ile Ala Ile Ser Gln Ser Asp Ala Asp Ser Glu Ser Xaa  
1 5 10 15  
Lys

<210> 260  
<211> 27  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 8  
<223> Xaa = Modified Cysteine

<400> 260  
Thr Tyr Leu Pro Pro Val Ser Xaa Asp Ala Glu Asp Pro Leu Phe Leu  
1 5 10 15  
Leu Tyr Thr Ser Gly Ser Thr Gly Ser Pro Lys  
20 25

<210> 261  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 16

<223> Xaa = Modified Cysteine

<400> 261

Ala Ile Ala Asn Gly Gln Val Asp Gly Phe Pro Thr Gln Glu Glu Xaa  
1 5 10 15  
Arg

<210> 262

<211> 27

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 8

<223> Xaa = Modified Cysteine

<400> 262

Phe Ile Pro Ser Leu Ile Gln Xaa Ile Ala Asp Pro Thr Glu Val Pro  
1 5 10 15  
Glu Thr Val His Leu Leu Gly Ala Thr Thr Phe  
20 25

<210> 263

<211> 29

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 23

<223> Xaa = Modified Cysteine

<400> 263

Ile Ala Asn Gln Ser Asn Leu Ser Pro Ser Val Glu Pro Tyr Ile Val  
1 5 10 15  
Gln Leu Val Pro Ala Ile Xaa Thr Asn Ala Gly Asn Lys  
20 25

<210> 264

<211> 21

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<221> VARIANT

<222> 7

<223> Xaa = Modified Cysteine

<400> 264

Lys Glu Ile Glu Glu His Xaa Ser Met Leu Gly Leu Asp Pro Glu Ile  
1 5 10 15  
Val Ser His Ser Arg

<210> 265  
 <211> 18  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa = Modified Cysteine

<400> 265  
 Asn Thr Tyr Glu Tyr Glu Xaa Ser Phe Leu Leu Gly Glu Asn Ile Gly  
 1 5 10 15  
 Met Lys

<210> 266  
 <211> 15  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 266  
 Pro Gln Ile Thr Asp Ile Asn Phe Gln Xaa Ser Leu Ser Ser Arg  
 1 5 10 15

<210> 267  
 <211> 25  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa = Modified Cysteine

<400> 267  
 Ser Thr Leu Ile Asn Val Leu Thr Gly Glu Leu Leu Pro Thr Ser Gly  
 1 5 10 15  
 Glu Val Tyr Thr His Glu Asn Xaa Arg  
 20 25

<210> 268  
 <211> 28  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa = Modified Cysteine  
  
 <400> 268  
 Val Thr Asn Met Glu Phe Gln Tyr Pro Gly Thr Ser Lys Pro Gln Ile  
 1 5 10 15  
 Thr Asp Ile Asn Phe Gln Xaa Ser Leu Ser Ser Arg  
 20 25

<210> 269  
 <211> 12  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 6, 9  
 <223> Xaa = Modified Cysteine

<221> VARIANT  
 <222> 9  
 <223> Xaa = Oxidized Methionine

<400> 269  
 Asn Val Ala Ala Gly Xaa Asn Pro Xaa Asp Leu Arg  
 1 5 10

<210> 270  
 <211> 12  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa = Modified Cysteine

<400> 270  
 Asn Val Ala Ala Gly Xaa Asn Pro Met Asp Leu Arg  
 1 5 10

<210> 271  
 <211> 17  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa = Modified Cysteine

<400> 271

Val Gly Leu Ile Gly Ser Xaa Thr Asn Ser Ser Tyr Glu Asp Met Ser  
 1 5 10 15  
 Arg

<210> 272  
 <211> 15  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 272  
 Tyr Gly Met Asp Tyr Met Tyr Asp Ala Xaa Ser Thr Thr Ala Arg  
 1 5 10 15

<210> 273  
 <211> 18  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 273  
 Val Val Glu Val Xaa Leu Ala Asp Leu Gln Gly Ser Glu Asp His Ser  
 1 5 10 15  
 Phe Arg

<210> 274  
 <211> 14  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 274  
 Asn Ile Thr Trp Ile Ala Glu Xaa Ile Ala Gln Asn Gln Arg  
 1 5 10

<210> 275  
 <211> 27  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa = Modified Cysteine

<400> 275  
 Glu Phe Xaa Ser Lys Met Asn Gln Val Cys Gly Thr Arg Gln Cys Pro  
 1 5 10 15  
 Ile Pro Lys Lys Pro Ile Ser Ala Leu Asp Lys  
 20 25

<210> 276  
 <211> 16  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa = Modified Cysteine

<400> 276  
 Gly Asp Leu Val Leu Asp Val Gly Xaa Gly Val Gly Gly Pro Ala Arg  
 1 5 10 15

<210> 277  
 <211> 12  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 277  
 Val Tyr Ala Ile Glu Ala Thr Xaa His Ala Pro Lys  
 1 5 10

<210> 278  
 <211> 34  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 17  
 <223> Xaa = Modified Cysteine

<400> 278  
 Leu Val Glu Ala Phe Gln Trp Thr Asp Lys Asn Gly Thr Val Leu Pro  
 1 5 10 15  
 Xaa Asn Trp Thr Pro Gly Ala Ala Thr Ile Lys Pro Thr Val Glu Asp





<211> 16  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine  
  
 <400> 282  
 Ala Ala Gly His Leu Val Glu Thr Ser Xaa Thr Ile Met Asp Leu Lys  
 1 5 10 15  
  
 <210> 283  
 <211> 16  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Modified Cysteine  
  
 <400> 283  
 Xaa Leu Ala Thr Leu Leu Gly His Asn Asp Trp Val Ser Gln Val Arg  
 1 5 10 15  
  
 <210> 284  
 <211> 18  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa = Modified Cysteine  
  
 <400> 284  
 Gly Gln Xaa Leu Ala Thr Leu Leu Gly His Asn Asp Trp Val Ser Gln  
 1 5 10 15  
 Val Arg  
  
 <210> 285  
 <211> 11  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine  
  
 <400> 285

Tyr Thr Gln Ser Asn Ser Val Xaa Tyr Ala Arg  
1 5 10

<210> 286  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa = Modified Cysteine

<400> 286  
Xaa Pro His Leu Glu Ile Val Asn Leu Ser Asp Asn Ala Phe Gly Leu  
1 5 10 15  
Arg

<210> 287  
<211> 11  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 5  
<223> Xaa = Modified Cysteine

<400> 287  
Val Glu Ala Ser Xaa Phe Asp Gly Asn Lys Arg  
1 5 10

<210> 288  
<211> 22  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 20  
<223> Xaa = Modified Cysteine

<400> 288  
Ile Ala Glu Ser Thr Pro Leu Pro Val Gly Val Ala Glu Asn Trp Leu  
1 5 10 15  
Tyr Leu Pro Xaa Ile Lys  
20

<210> 289  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine  
  
 <400> 289  
 Gly Xaa Gly Val Ala Ala Thr Glu Leu Gly Met Leu Ala Gly Ala Asp  
 1 5 10 15  
 Arg

<210> 290  
 <211> 18  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine

<400> 290  
 Ile Gly Pro Gln Gly Ala Leu Leu Gly Xaa Asp Ala Ala Gly Gln Ile  
 1 5 10 15  
 Val Lys

<210> 291  
 <211> 9  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine

<400> 291  
 Gly Xaa Glu Val Val Val Ser Gly Lys  
 1 5

<210> 292  
 <211> 17  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Modified Cysteine

<400> 292  
 Xaa Ala Gly Gly Asn Asn Ala Gly His Thr Ile Val Val Asp Gly Val

1	5	10	15
Lys			

<210> 293  
 <211> 10  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = Modified Cysteine

<400> 293  
 Xaa Gly Trp Leu Asp Leu Val Val Leu Lys  
 1 5 10

<210> 294  
 <211> 13  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa = Modified Cysteine

<400> 294  
 Val Xaa Glu Phe Met Ile Ser Gln Leu Gly Leu Gln Lys  
 1 5 10

<210> 295  
 <211> 14  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine

<400> 295  
 Ala Gly Gly Glu Xaa Ile Thr Leu Asp Gln Leu Ala Val Arg  
 1 5 10

<210> 296  
 <211> 17  
 <212> PRT  
 <213> Saccharomyces cerevisiae

<220>  
 <221> VARIANT

<222> 1  
 <223> Xaa = Modified Cysteine  
  
 <400> 296  
 Xaa Gly Gly Leu Pro Ala Pro Glu Asp Ser Asp Asn Pro Leu Gly Tyr  
 1 5 10 15  
 Lys

<210> 297  
 <211> 10  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa = Modified Cysteine

<400> 297  
 Gly Asn Ala Leu Asp Thr Leu Xaa Ala Arg  
 1 5 10

<210> 298  
 <211> 20  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
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 <223> Xaa = Modified Cysteine

<400> 298  
 Leu Ser Tyr Xaa Gly Gly Leu Pro Ala Pro Glu Asp Ser Asp Asn Pro  
 1 5 10 15  
 Leu Gly Tyr Lys  
 20

<210> 299  
 <211> 22  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<220>  
 <221> VARIANT  
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 <223> Xaa = Modified Cysteine

<400> 299  
 Ser Phe Leu Ser Tyr Xaa Gly Gly Leu Pro Ala Pro Glu Asp Ser Asp  
 1 5 10 15  
 Asn Pro Leu Gly Tyr Lys  
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<210> 300  
<211> 32  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
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<223> Xaa = Modified Cysteine

<400> 300  
Ala Thr Ala Asp Ala Val Gln Ala Ala His Ile Pro Gln Gly Thr Asp  
1 5 10 15  
Leu Ala Gln Val Ala Pro Ile Leu Xaa Ala Gly Ile Thr Val Tyr Lys  
20 25 30

<210> 301  
<211> 21  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 12  
<223> Xaa = Modified Cysteine

<400> 301  
Val Asp Met Pro Val Ile Phe Gly Leu Leu Thr Xaa Met Thr Glu Glu  
1 5 10 15  
Gln Ala Leu Ala Arg  
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<210> 302  
<211> 25  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 16  
<223> Xaa = Modified Cysteine

<400> 302  
Glu Ile Ser Glu Asp Gly Ala Asp Ser Leu Asn Val Ala Met Asp Xaa  
1 5 10 15  
Ile Ser Glu Ala Phe Gly Phe Glu Arg  
20 25

<210> 303  
<211> 10  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
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 <223> Xaa = Modified Cysteine  
  
 <400> 303  
 His Asp Ala Glu Gly Val Val Xaa Val Arg  
 1 5 10  
  
 <210> 304  
 <211> 27  
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 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 22  
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 <400> 304  
 Glu Leu Leu Asn Glu Tyr Gly Phe Asp Gly Asp Asn Ala Pro Ile Ile  
 1 5 10 15  
 Met Gly Ser Ala Leu Xaa Ala Leu Glu Gly Arg  
 20 25  
  
 <210> 305  
 <211> 12  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa = Modified Cysteine  
  
 <400> 305  
 Asp Leu Met Ala Xaa Ala Gln Thr Gly Ser Gly Lys  
 1 5 10  
  
 <210> 306  
 <211> 17  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*  
  
 <220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa = Modified Cysteine  
  
 <400> 306  
 Phe Phe Asn Asn His Leu Phe Ala Ser Xaa Ser Asp Asp Asn Ile Leu  
 1 5 10 15  
 Arg



<210> 307  
<211> 15  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa = Modified Cysteine

<400> 307  
Xaa Val Gly Val Ile Leu Gly Asp Ala Asn Ser Ser Thr Ile Arg  
1 5 10 15

<210> 308  
<211> 20  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 16  
<223> Xaa = Modified Cysteine

<400> 308  
Val Asn Val Tyr Gly Gly Ala Val Ala Leu Gly His Pro Leu Gly Xaa  
1 5 10 15  
Ser Gly Ala Arg  
20

<210> 309  
<211> 14  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 11  
<223> Xaa = Modified Cysteine

<400> 309  
Ile Ala Pro Ala Leu Ala Met Gly Asn Val Xaa Ile Leu Lys  
1 5 10

<210> 310  
<211> 17  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT

<222> 16  
<223> Xaa = Modified Cysteine

<400> 310  
Pro Ala Ala Val Thr Pro Leu Asn Ala Leu Tyr Phe Ala Ser Leu Xaa  
1 5 10 15  
Lys

<210> 311  
<211> 24  
<212> PRT  
<213> *Saccharomyces cerevisiae*

<220>  
<221> VARIANT  
<222> 3  
<223> Xaa = Modified Cysteine

<400> 311  
Ile Ile Xaa Glu Asn Tyr Leu Phe Asn Trp Trp Glu Gln Leu Asp Asp  
1 5 10 15  
Leu Ser Glu Val Glu Asn Asp Arg  
20